- 651 sq. miles
- 438,332 acres
- 84% Ag land
- 6% Forested land
- 10% Other/Urban Land
- 208 miles of streams
Upper Iroquois Watershed Initiative

Utilizing Iroquois River Super Gage with local data.

Integrator of tributary sites
1. 5 years of monthly discrete water quality data.
2. Flow percentage from tributary
   i. Constituent percentage from tributary
What can we do about this... 

• Nutrient management, no-till, crop rotation and cover crops were implemented as a **SYSTEM!**

• Annual Nitrate concentrations in tile water dropped from over 30 mg/l to under 10 mg/l

  - Dr. Eileen Kladivko
  
  Purdue University

• Soil loss rates cut by 95%
How are the farmer’s benefiting?

“Produces a bushel of corn on ½ pound of nitrogen”
“Reduced application by half of herbicide”
“10 bushel increase of soybeans after cereal rye cover crop”
“Increased uniform emergence, better soil tilth, nitrogen scavenged”

Yet, adoption of cover crops is a growing but small minority. A lot of work has yet to be done . . .
“Cover Crop Guy”

You Tube Channel
• JCSWCD
• 131 total videos in 2016
• 54,483 Views in 2016
Notre Dame Research Project.
2 year complete . . . 40% of watershed in cover crop ..

- 6,000 Acres Watershed
- 4 year study
- 2x month sampling
- All Tile outlets
- All Surface water

INDIANA WATERSHED INITIATIVE

PREVENTING NUTRIENT LOSS FROM INDIANA FARMS WITH WATERSHED-SCALE PAIRING OF COVER CROPS AND THE TWO-STAGE DITCH

www.indianaiwatershedinitiative.com